



25805612

QP CODE: 25805612

Reg No :

Name :

M.C.A. DEGREE EXAMINATION, NOVEMBER 2025

First Semester

Faculty of Technology & Applied Science

Master of Computer Application

CORE - MCACT104 - SOFTWARE ENGINEERING AND OBJECT ORIENTED

MODELING

2020 Admission Onwards

4775AAC3

Time: 3 Hours

Maximum: 75 Marks

Part A

*Answer any **ten** questions*

Each question carries 3 marks

1. Define Software Engineering.
2. List out the reasons for problems occur in the prototyping model.
3. What are the advantages of Scrum model?
4. Bring out the importance of conducting feasibility study.
5. What are eliciting requirements?
6. Discuss the IEEE standard format of SRS.
7. Explain modularity.
8. Illustrate top down approach in design.
9. What is black-box testing ?
10. Explain the term flow-graph notation.
11. Explain different types of actors in use case diagram.
12. Explain basic communication diagram notation.

(10×3=30 marks)





Part B

Answer *all* questions

Each question carries 9 marks

13. a) Define software process. Illustrate the framework of software process with a neat sketch.

OR

- b) Explain the various stages involved in water fall model along with the objectives of each phase. Mention its limitations.

14. a) Describe various types of requirements in software engineering.

OR

- b) Describe requirement engineering process?

15. a) write a note on function oriented design.

OR

- b) Describe Data flow diagram.

16. a) Compare black-box and white-box testing with sufficient explanation.

OR

- b) Discuss in detail about unit testing with diagrams.

17. a) Compare sequence diagram and communication diagram.

OR

- b) Explain use case approach with use case text and use case diagram an example.

(5×9=45 marks)

